			- Iou
	Application No.	Applicant(s)	• -
Motion of Allowahility	09/448,276	LEE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Timothy L Rude	2883	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is	in this application. If not include nunication will be mailed in due	ed course. THIS
1. \boxtimes This communication is responsive to <u>amendment filed 01 C</u>	October 2004.		
2. The allowed claim(s) is/are <u>1-38</u> .			
3. \boxtimes The drawings filed on <u>24 November 1999</u> are accepted by	the Examiner.		`
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Applicati	on No	tion from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the rec	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) including changes required by the Notice of Draftspers	. –	w (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t			back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I			Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application (PTC	D-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	•
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 20040806	Paper No 8), 7. ☐ Examiner's	./Mail Date s Amendment/Comment	
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	Statement of Reasons for Allo	wance
of Biological Material	9. 🗌 Other	<u>_</u> .	
tir			

Application/Control Number: 09/448,276

Art Unit: 2883

DETAILED ACTION

Claims

Claims 1, 12, 13, 15, 16, and 30 are amended.

Allowable Subject Matter

Claims 1-38 allowed.

The following is an examiner's statement of reasons for allowance:

As to claims 1, 12, 13, 15, 16, and 30, relevant prior art of record did not disclose, alone or in combination, a multi-domain liquid crystal display device as claimed comprising: a dielectric frame located exclusively in a region other than where said pixel electrode is formed, said dielectric frame distorting electric field applied to said liquid crystal layer.

The closest reference is Yamada who discloses [Figures 10A-10D (col. 19, line 40 through col. 27, line 35] a multi-domain liquid crystal display device comprising: first and second substrates facing each other [32 and 34]; a liquid crystal layer [42] between said first and second substrates; a pixel electrode [31] in said pixel region; and a common electrode [33] on said second substrate; a dielectric frame, [36, OMR83, col. 26, lines 45-62] in a region other than a region where said pixel [pixel region in 10C] electrode is formed, said dielectric frame distorting electric field applied to said liquid crystal layer [inherent to dielectric material, OMR83], and an alignment layer, 38a and

Application/Control Number: 09/448,276

Art Unit: 2883

38b, on at least one substrate between said first and second substrates. Figures 10A-10D of Yamada do not explicitly disclose the gap between neighboring pixel electrodes, a plurality of gate bus lines arranged in a first direction on said first substrate and a plurality of data bus lines arranged in a second direction on said first substrate to define a pixel region, however these are obviously well known in the art as they are needed to control the individual pixel electrodes to achieve proper display performance.

However, no reference was found to teach modification of Yamada to result in the claimed dielectric frame located exclusively in a region other than where said pixel electrode is formed.

European Patent Application Publication EP 0884646 and Horie et al USPAT 5,673,092 [both provided by Applicant] teach the use of physical barriers with and without alignment surface properties, but they do not provide a motivation to modify dielectric structures to result in the claimed invention.

As to claims 2-11, 14, 17-29, and 31-38, they are directly or indirectly dependent upon claims with allowable subject matter above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy L Rude whose telephone number is (571) 272-2301. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Timothy L Rude Examiner Art Unit 2883

tlr

TARIFUR R. CHOWDHURY